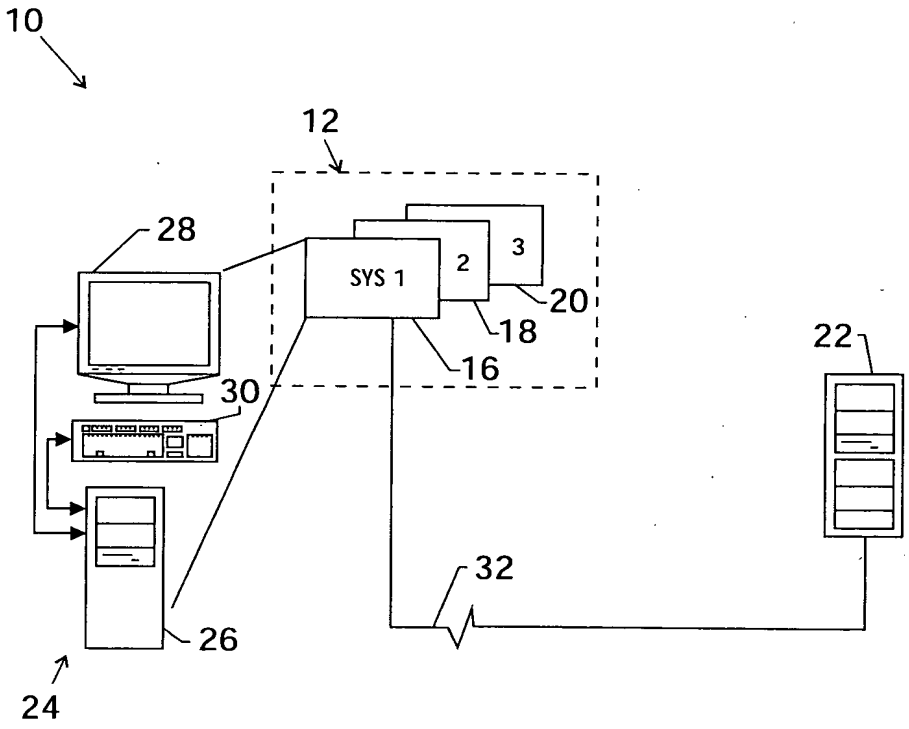

FIG. 1

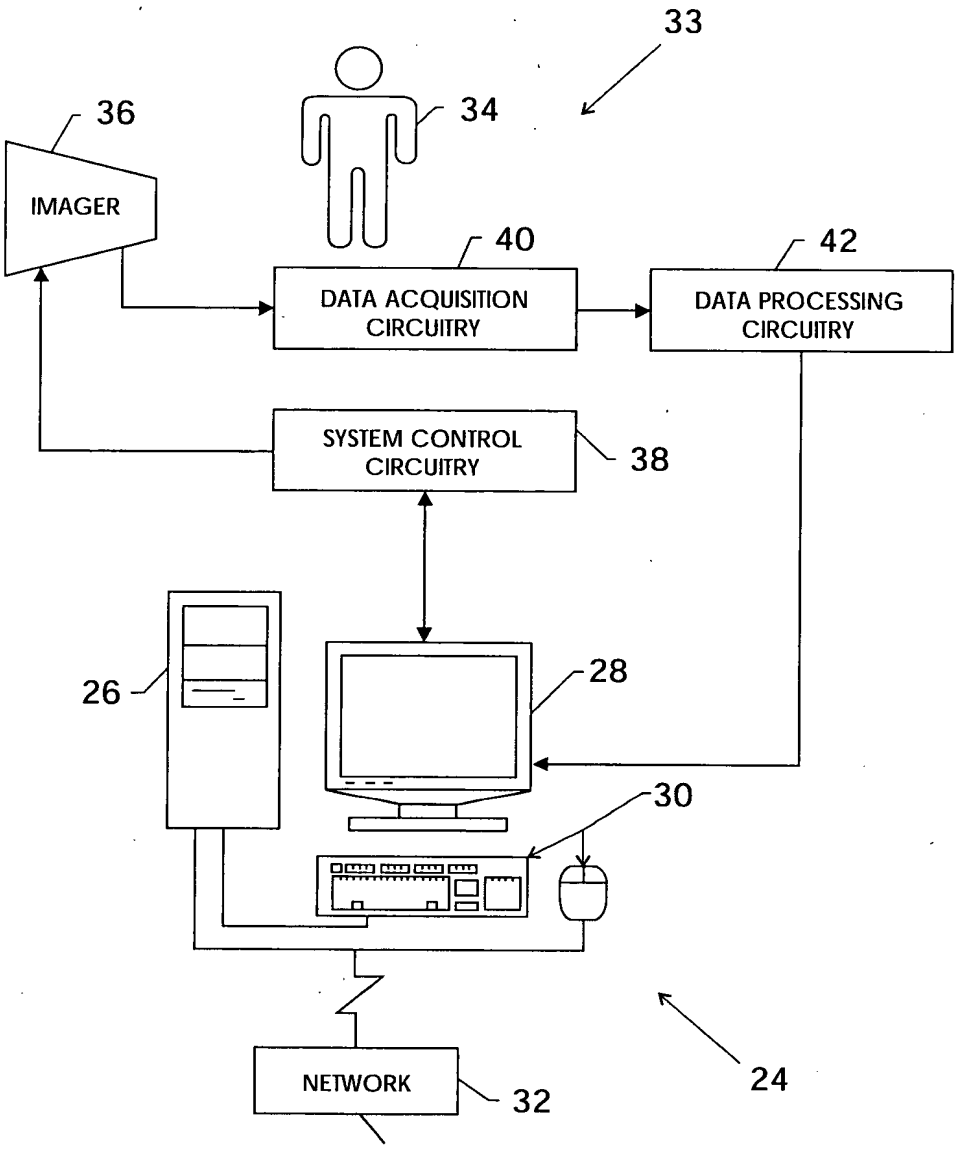
33
34
36
IMAGER
40
DATA ACQUISITION CIRCUITRY
42
DATA PROCESSING CIRCUITRY
SYSTEM CONTROL CIRCUITRY
38
26
28
30
NETWORK
32
24

FIG. 2

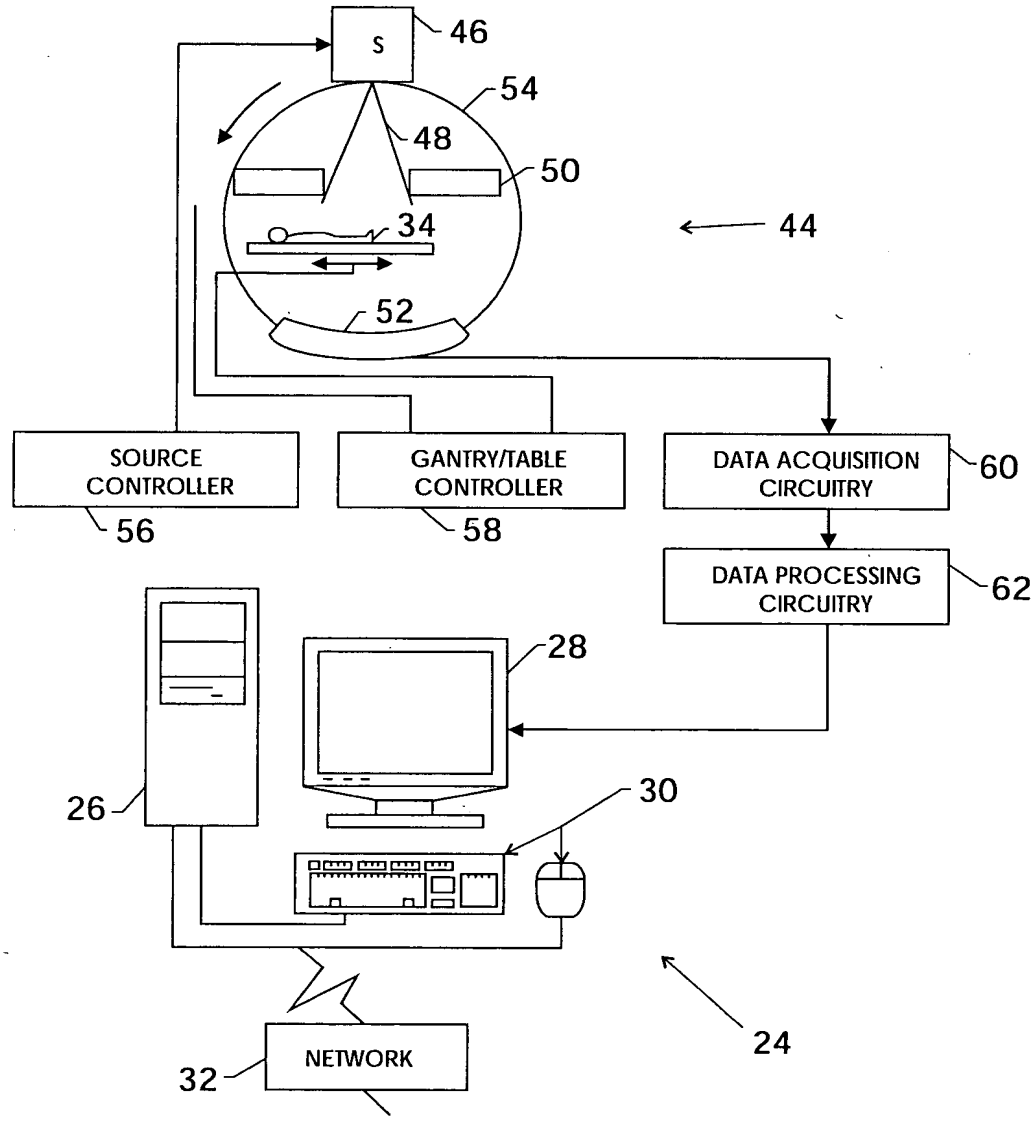
S
46
54
48
50
34
44
52
SOURCE CONTROLLER
56
GANTRY/TABLE CONTROLLER
58
DATA ACQUISITION CIRCUITRY
60
DATA PROCESSING CIRCUITRY
62
28
26
30
NETWORK
32
24

FIG. 3

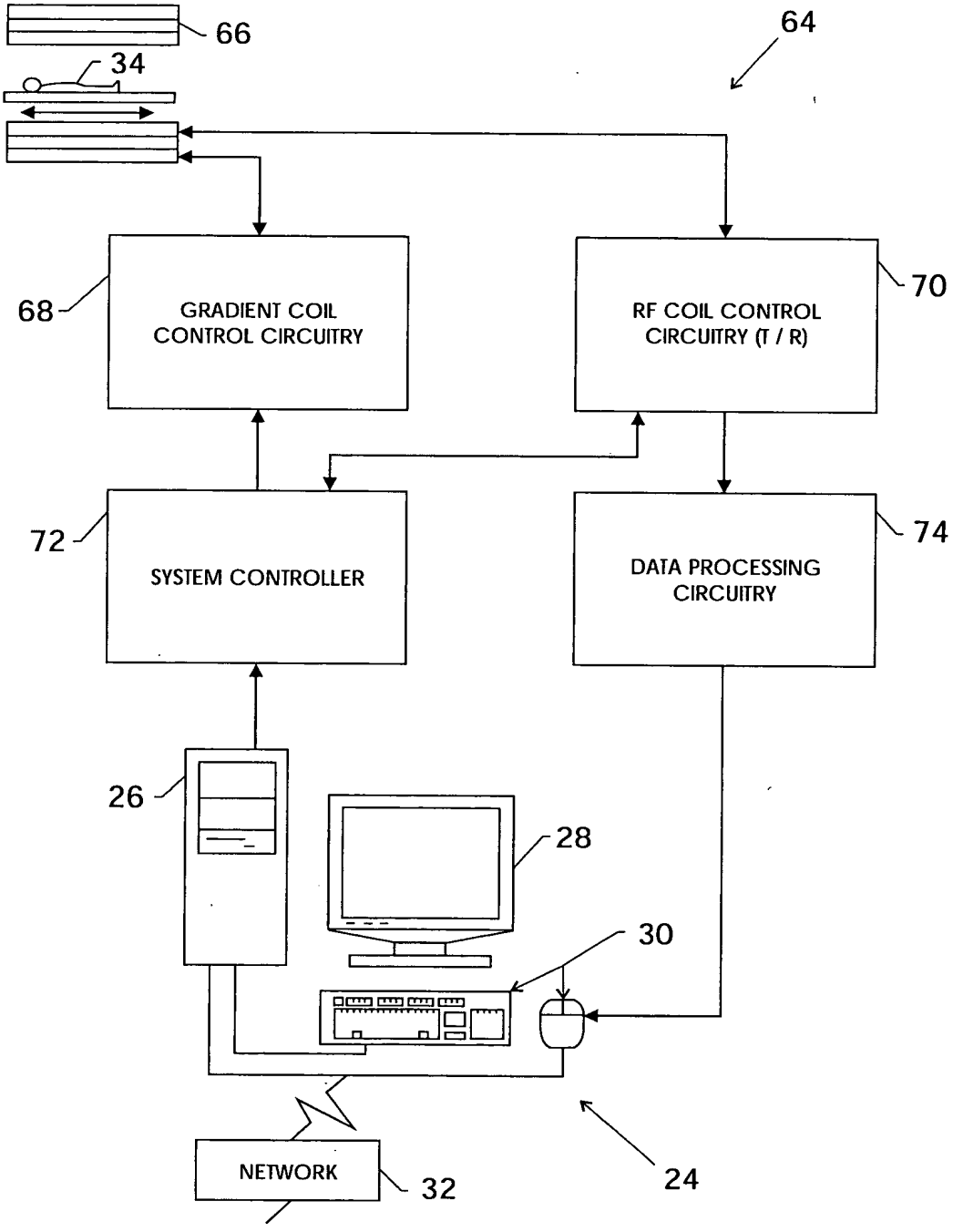
66
64
34
68
GRADIENT COIL CONTROL CIRCUITRY
RF COIL CONTROL CIRCUITRY (T / R)
70
72
SYSTEM CONTROLLER
DATA PROCESSING CIRCUITRY
74
26
28
30
NETWORK
32
24

FIG. 4

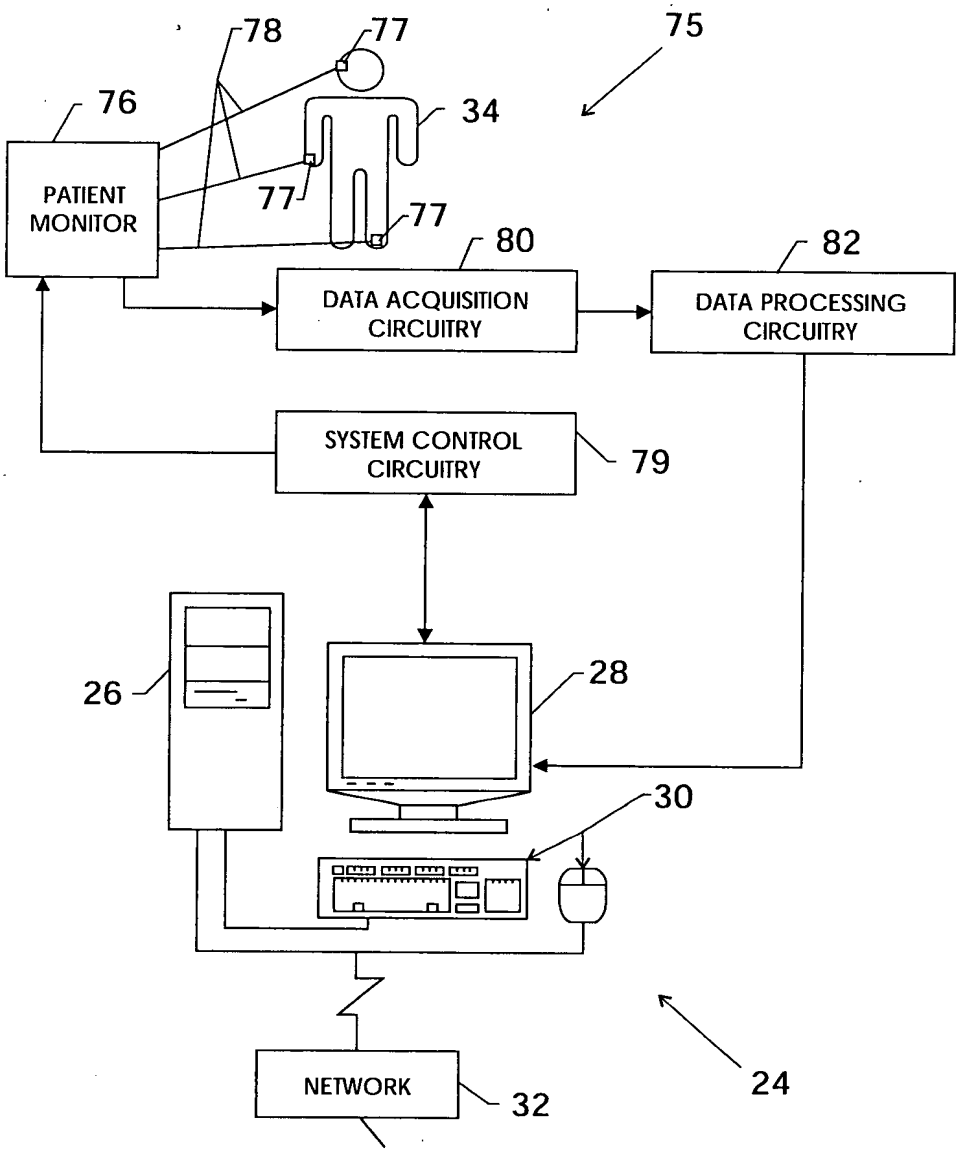
78
77
75
76
34
PATIENT MONITOR
77
77
80
82
DATA ACQUISITION CIRCUITRY
DATA PROCESSING CIRCUITRY
SYSTEM CONTROL CIRCUITRY
79
26
28
30
NETWORK
32
24

FIG. 5

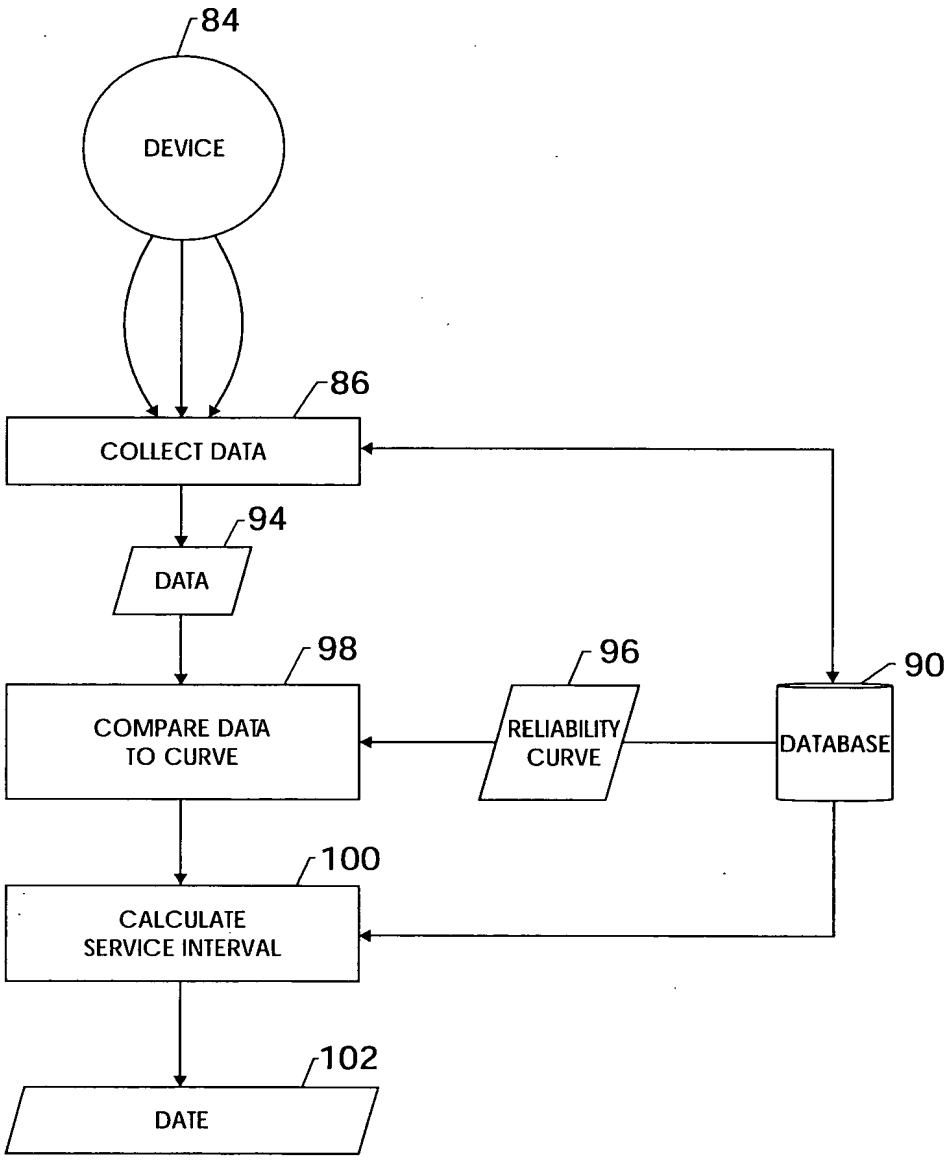
84
DEVICE
86
COLLECT DATA
94
DATA
98
COMPARE DATA TO CURVE
96
RELIABILITY CURVE
90
DATABASE
100
CALCULATE SERVICE INTERVAL
102
DATE

FIG. 6

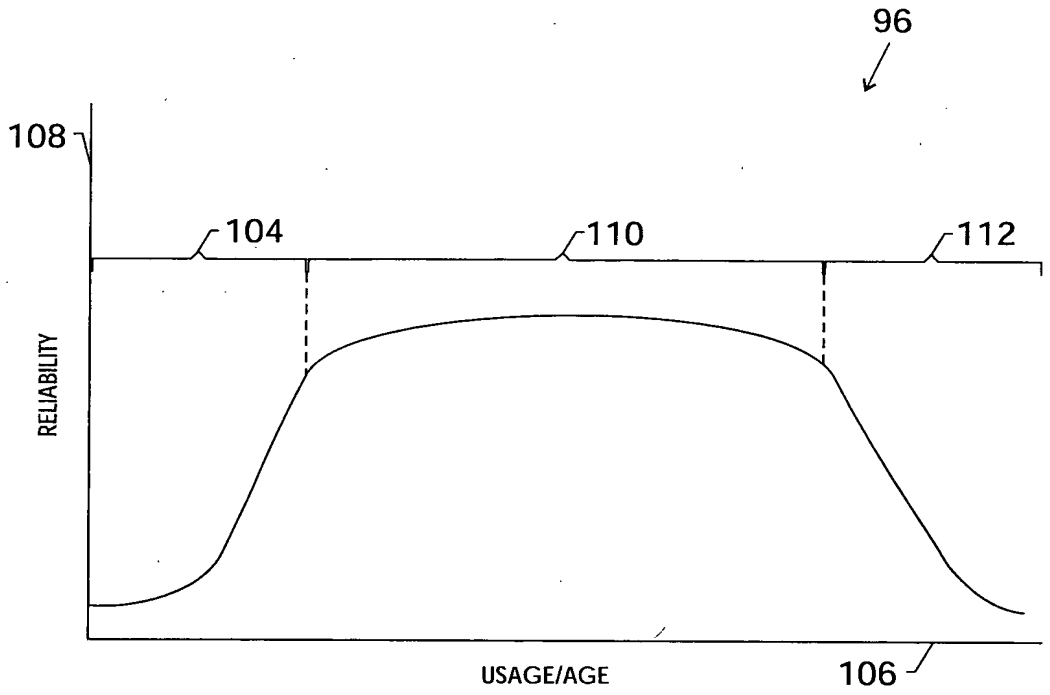

FIG. 7